

SYSTEM, METHOD, AND APPARATUS FOR  
ESTABLISHING HEADROOM FOR A MOBILE STATION

ABSTRACT OF THE DISCLOSURE

1       A system, method, and apparatus for establishing headroom for a mobile  
2 station operating in a wireless communication system by determining (230) a  
3 communication channel variance condition and establishing (245) a headroom  
4 value based on the communication channel variance condition. The headroom  
5 value may be further revised by determining (260) if a battery condition in a  
6 mobile station relates to a low battery level and increasing (265) the headroom  
7 value in order to decrease the maximum data rate. Modifications to headroom  
8 allow data rates to be tailored to specific channel variance conditions and battery  
9 conditions.